

Possum Point Toe-Drain Project Scope and Estimate

Scope Description:

This project aims to stop the flow of toe drain and rain water through the 72" culvert going beneath Possum Point Rd. that discharges as Outfall 010. This PO shall cover engineering and construction activities for the design and installation of this temporary installation and engineering for an intermediate installation if needed. This work shall be accomplished by clearing the 72" culvert of silt in order to install two plugs. The culvert shall be cleared by the use of vacuum trucks and other excavation methods as necessary. Pumps shall then be installed to pump water from the closed drainage structure up to Pond D and operate for 6 to 12 months.

Estimated costs:

Engineering \$50,000

Equipment, Installation, and 6 months of Operation: \$146,594

The toe drain installation and equipment for the temporary solution will include:

- Cleaning out the 72 inch culvert under the road
- Installation of 2 air plugs
- All necessary time and materials to complete the sump
- A light plant for night operations
- 2 diesel pumps and all hoses necessary for the suction and discharge
- Discharge piping, fittings, and installation

Per month after 6 months \$14,193

Total: \$196,594 for Engineering, Installation, and first 6 months operation.

Total : \$281,752 for Engineering, Installation, and 12 months operation.